

## عنوان مقاله:

study on the environmental impact of boron and hydro-geochemical elements of Isti Su Hot Spring in Salmas, Western Azerbaijan, Iran

## محل انتشار:

کنفرانس بین المللی پژوهش های نوین در علوم کشاورزی و محیط زیست (سال: 1394)

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## خلاصه مقاله:

Throughout history, hot springs have been of undeniable effects on human's life, even animals benefit from natural hot springs. Some of these waters, because of having some chemical materials, hold a particular color, odor or taste and they are used enormously in the fields of health and tourism. boron is derived from geothermal sources, and is leached from many varieties of rocks. Normally, Boron concentration in the hydrothermal and geothermal solutions for water rise higher than its standard level for water High B concentrations can cause human health effects. Additionally high B concentrations can have a detri mental effect to crops. So, aimed at this purpose, studying these springs from an environmental perspective is of vital importance. In this paper, Isti Su's hot spring in Ab-e-Garm Village located in the city of Salmas was studied .Regarding the importance of the dangers emerged due to excessive amounts of these dangerous elements after the geochemical measurements of water samples to determine the water type, drawing diagrams and comparing the values obtained with national and international standards, it was concluded that the As, B, Li, Fe, Hg, Na, and Cr elements' levels are over the permitted level. As a result, the inappropriate use of this .natural phenomenon can bear harmful negative effects on the environment and human beings

## کلمات کلیدی:

hydrogeochemical elements, environmental impact, hot spring, Salams, Iran

## لینک ثابت مقاله در پایگاه سیویلیکا:

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